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| APPLICATION NO. | . FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|----------------------|-----------------|----------------------|--------------------------|-----------------|
| 09/941,085 | 08/28/2001 | Erik C. Houge | BINDELL 23-24-1-23-18 | 5839 |
| 27964 | 7590 07/10/2003 | | | |
| HITT GAIN | ES P.C. | | | |
| P.O. BOX 832 | 2570 | | EXAM | INER |
| RICHARDSON, TX 75083 | | | PATEL, PARESH H | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2829 | |
| | | | DATE MAIL ED. 07/10/2002 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | AV | | | |
|--|--|---|--|--|--|--|
| 1. | | Applicati n No. | Applicant(s) | | | |
| | Office Action Summary | 09/941,085 | HOUGE ET AL. | | | |
| Ĭ | Office Action Summary | Examiner | Art Unit | | | |
| | The MAU INC DATE of this service is | Paresh Patel | 2829 | | | |
| A SH | ORTENED STATUTORY PERIOD FOR REPL | | | | | |
| - External e | MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 vill apply and will expire SIX (6) MONTHS | be timely filed)) days will be considered timely. from the mailing date of this communication. | | | |
| 1)[🛛 | Responsive to communication(s) filed on 05 | lune 2003 . | | | | |
| 2a) □ | <u></u> | | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the ments is | | | | | |
| Dispositi | closed in accordance with the practice under on of Claims | Ex parte Quayle, 1935 C.D. 1 | 1, 453 O.G. 213. | | | |
| 4)🖂 | Claim(s) 1-8,21 and 22 is/are pending in the a | pplication. | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | |
| 6)⊠ | 6) Claim(s) 1-8,21 and 22 is/are rejected. | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | |
| 8) <u> </u> | Claim(s) are subject to restriction and/or papers | election requirement. | | | | |
| | he specification is objected to by the Examiner | | | | | |
| 1 | he drawing(s) filed on is/are: a)□ accep | | - Evaminer | | | |
| | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. | | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | |
| 12)☐ The oath or declaration is objected to by the Examiner. | | | | | | |
| | nder 35 U.S.C. §§ 119 and 120 | | | | | |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| _ | All b) Some * c) None of: | p, | (a) (a) or (i). | | | |
| 1 | Certified copies of the priority documents | have been received | | | | |
| 2 | | | eation No | | | |
| 3 | 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). | | | | | |
| | ee the attached detailed Office action for a list o | f the certified copies not rece | | | | |
| | knowledgment is made of a claim for domestic | | | | | |
| a) 15)∐ Ad | \square The translation of the foreign language prov cknowledgment is made of a claim for domestic | isional application has been repriority under 35 U.S.C. §§ 1 | eceived. 20 and/or 121. | | | |
| Attachment(s | | | | | | |
| 2) Notice 3) Informa | of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Inform | ary (PTO-413) Paper No(s) al Patent Application (PTO-152) | | | |
| S. Patent and Trad TO-326 (Rev. | A A 41 | on Summary | Part of Paper No. 4 | | | |

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of invention (Group I, claims 1-8 and 21-22) in Paper No. 3 is acknowledged.

Specification

The disclosure is objected to because of the following informalities: in the abstract replace "The present invention provides a" with --A--. Also in the title delete "and method of manufacturing the same".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 and 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Bahns et al. (US 6020747).

Regarding claim 1, Bahns et al. (hereinafter Bahns) discloses: A probe [11, 14, 54], comprising: a probe body [body of probe 11 except fiber 13] having a body longitudinal axis [axis is imaginary here, i.e. vertical axis of 14, 11 or 54] and a shoulder [end of probe body of 11, end of 14 and end of 58 all towards fiber 13, 10 or 52 respectively]; and a microstylet [carbon nanotube and fiber 10 or 13 or 52 and lines 47-

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49 of column 3 and lines 10-26 of column 4] mechanically coupled to and extending from the shoulder and having a microstylet longitudinal axis [inherent to above elements] coincident the body longitudinal axis, the microstylet having a cross section substantially smaller than a cross section of the probe body [see diameter of fiber 10 or 13 or 52 with diameter of probe body 11 or 14 or 58].

Regarding claim 2, Bahns discloses: The probe as recited in claim 1 wherein the microstylet [carbon nanotube] comprises an acerate microparticle [lines 36-51 of column 3] selected from the group consisting of: a carbon whisker [carbon rod]; a metal needle; and a diamond [lines 36-51 of column 3].

Regarding claim 3, Bahns discloses: The probe as recited in claim 1 wherein the carbon nanotube is a single-walled carbon nanotube or a multi-walled carbon nanotube [lines 52-55 of column 3].

Regarding claim 4, Bahns discloses: The probe as recited in claim 1 wherein the probe body comprises a tube [glass tube, 14 and lines 51-53 of column 5].

Regarding claim 5, Bahns discloses: The probe as recited in claim 1 wherein the probe body comprises a glass tube [glass tube, 14 and lines 51-53 of column 5].

Regarding claim 6, Bahns discloses: 6. The probe as recited in claim 1 wherein a portion of the microstylet resides within the probe body [see 52 in fig. 3].

Regarding claim 7, Bahns discloses: The probe as recited in claim 1 wherein the shoulder includes a fastigiate shoulder [conical end of 56].

Regarding claim 8, Bahns discloses: The probe as recited in claim 1 wherein the probe is a field emitter, a micromanipulator or a microinjector [lines 53-65 of column 8].

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Regarding claim 21, Bahns discloses: A probe [11 with 14], comprising: a probe body [body of 11 and 14 and 56] having a body longitudinal axis [imaginary vertical axis of 11 with 14 and 56] and a shoulder [end of 11 or 14 or 56]; and a carbon nanotube [52 or 82 or 10, 12, 13] mechanically coupled to and extending from the shoulder and having a carbon nanotube longitudinal axis [imaginary vertical axis of 52, 82, 10, 12, 13] coincident the body longitudinal axis [see fig. With these elements], the carbon nanotube having a cross section substantially smaller than a cross section of the probe body [also see diameter of 14 and 10 and other similar elements of all figures].

Regarding claim 22, Bahns discloses: The probe as recited in claim 21 wherein the carbon nanotube is a single-walled carbon nanotube or a multi-walled carbon nanotube [lines 51-55 of column 3].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paresh Patel whose telephone number is 703-306-5859. The examiner can normally be reached on M-F (8:30 to 4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 703-308-1233. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Paresh Patel June 24, 2003 SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800